

#### Overview

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## **Progress Summary**

- Preconstruction photographic and settlement surveys completed.
- Utility test pits completed and existing services disconnected.
- Sawcutting for the new electrical ductbank completed.
- Demolition of 220 S. Union Street warehouse completed.
  - 32,500-gallons of water used in first 4.5 days for dust control during demolition.
  - 8,000-gallon daily water consumption average.
- Disposal of the concrete slab is underway for completion this week.
  - Use of excavator and sawcut operator
- Archeological monitoring has started.
  - Thunderbird Archeology is monitoring
- The first phase of dewatering well points have been installed.

## Look-Ahead

#### September 7<sup>th</sup> – II<sup>th</sup>:

- Removal of the building slab via excavator and sawcutter.
- Initial dewatering drawdown and placement of well points at Duke Street.
- Start excavation with archeological trenching to level the site to the Strand Street elevation.
- Electrical utility work from South Union east on Duke Street

#### September 14<sup>th</sup> – 18<sup>th</sup>:

- Site utility work will continue within Duke Street and Strand Street.
- Continue leveling the site with archeological monitoring.
- Demolition of the 210 Strand Street warehouse.

The current utility work will continue through September ahead of work by the power company to remove overhead electrical lines.

# Hauling

Vehicle weights are restricted by Virginia DMV (the Motor Vehicle Code of Virginia).

- Haul Route signage has been posted
  - Inbound: via Franklin
  - Outbound: via Gibbon
- Coordinated with T&ES for arrow markings and "Truck Route" indicators.
- The City has posted an informational Waterfront Construction Haul Route sign with a toll free number.
- The truck dispatcher has instructions only to provide drivers agreeing to follow the route and cover loads.
- Drivers found deviating from the route or not covering loads are dismissed.

## Construction Parking

- All contracts state that per "direction from the City of Alexandria,
  no construction worker parking will be allowed on streets in the
  area of the project."
- Parking rules are reiterated to every individual worker and consultant during their safety orientation prior to physically working onsite.
- To-date, workers have parked within the project limits behind the fence and on the warehouse slab.
- The utility and dewatering subcontractors Flippo and Griffen arrive by crew cab work trucks.
- As crew levels increase, parking within pay lots/garages will be more prevalent.
- "No Construction Worker Parking" signs have been offered to be posted, and approval to do so is pending.

### **Work Hours**

**Normal Hours:** 

Monday – Friday: 7am to 6pm

Saturday (behind fence): 9am to 6pm

Saturday (in the ROW): 9am to 5pm

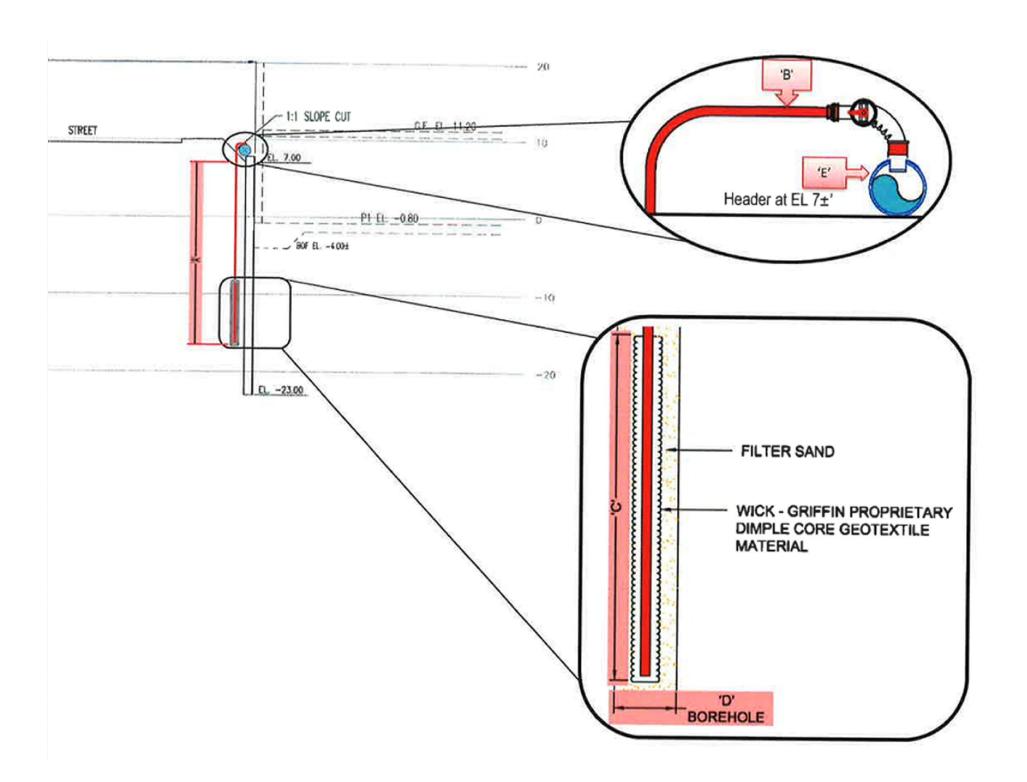
Pile Driving Hours:

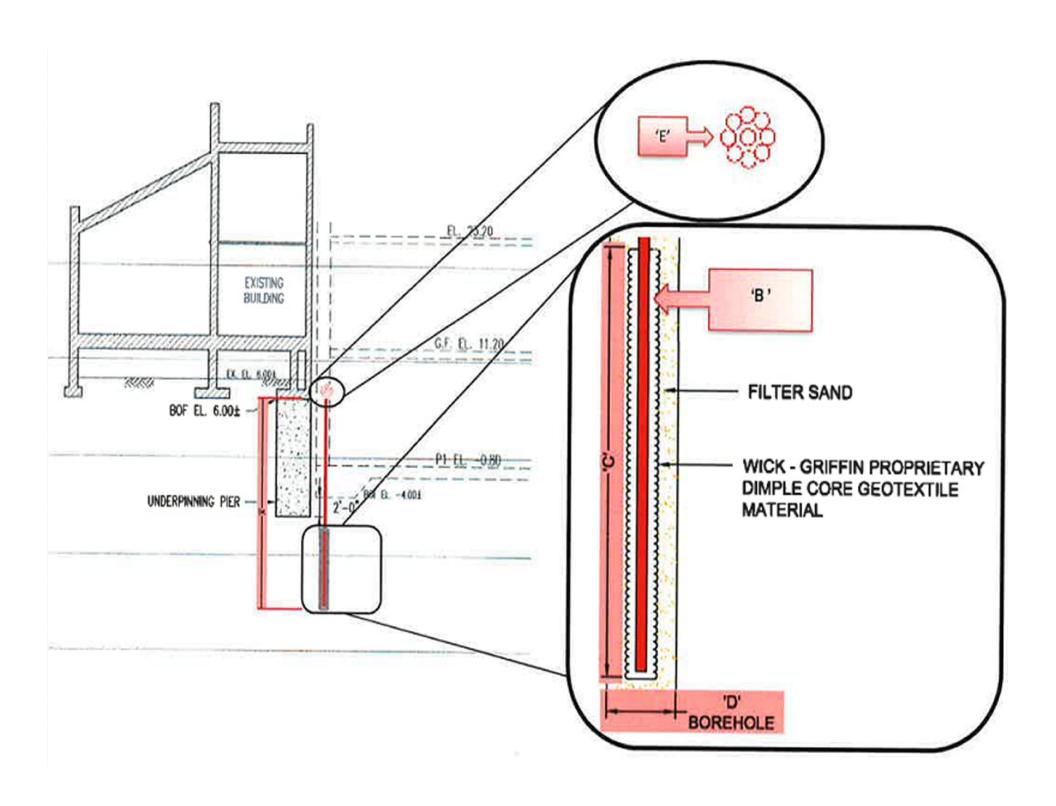
Monday – Friday: 9am to 6pm

Saturday (behind fence): 10am to 4pm

# Dewatering Operation

- Specialty Subcontractor: Griffin Dewatering Mid-Atlantic, LLC
- Each system is specially engineered for the individual site.
- Consists of <sup>3</sup>/<sub>4</sub>" wick tubes installed at approximately 7' o.c. to depths between 20 and 25 feet deep.
- Wick tubes tie to a 6" header pipe at the full perimeter of the site.
- A continuously running pump draws the groundwater to a depth just below the design subgrade for the building foundations.
- Water is permitted to be discharged to the storm system, but will be discharged to the sanitary system despite clean pre-discharge samples for treatment by Alexandria Renew.
- Settlement Monitoring is maintained for the duration of the dewatering.





## Settlement Monitoring

- Settlement monitoring points have been installed in the vicinity of the site.
- Monitoring will be conducted on six existing buildings near the site.
  - Robinson Terminal (to the South)
  - Private townhomes (Southwest),
  - Parking garage (West),
  - The Carriage House (Northwest),
  - A series of business with a shared building including the Potomac Riverboat Company (North), and
  - The Village on The Strand (211 Strand)series of business
- Monitoring will assess any settlement, displacement or general movement incurred to the existing buildings surrounding the job site.
- Twice weekly monitoring during dewatering draw down.
   Thereafter, weekly. Action levels are set to a percentage of expected movement.

#### 220 South Union Street

#### Monitoring Plan & Narrative



## Vibration Monitoring

- Specialty Consultant: ECS Mid-Atlantic, LLC
- Placement scheduled for the week of 9/14/15
- Seismograph equipment measures vibrations from the site and is downloaded remotely for reporting.
- A threshold trigger is established, and if exceeded, an notice is emailed to the contractor and ECS.
  - Individual instances are not the focus, but exceeding the threshold multiple times leads to a cause for the P.E. to evaluate the methods used.
- Monitoring will be conducted at three properties closest to the site:
  - 211 Strand Street (north)
  - Solo Parking Garage
  - 2 Duke Street (Historic RTS Building)

## Archeology

- Consultant: Thunderbird Archeology (a Wetland Studies company)
- Full time monitoring of dirt moving activities beginning with removal of the building slab and installation of E&S.
- Phased excavation with archeological trenching every 4 feet in depth.
- Monitoring of utility trench excavation.
- Scope of work reviewed and approved by Alexandria Archeology.

